

**Frequencies for selected variables  
NHEFS LINKED MORTALITY FILE FREQUENCIES**

| <b>VARIABLE</b>                                   | <b>Number</b> |
|---|---------------|
| <i>ELIGSTAT</i> 1=Eligible                        | 14407         |
| <i>MORTSTAT</i> 0=Assumed alive                   | 7751          |
| 1=Assumed deceased                                | 6656          |
| <i>MORTSRCE</i> 1=NDI probabilistic match only    | 866           |
| 2=NDI match & death certificate match             | 4525          |
| 3=Death certificate match only                    | 1190          |
| 4=Previously released death- proxy interview only | 75            |
| Blank=Assumed alive                               | 7751          |
| <i>DODMONTH</i> 01-12                             | 6656          |
| Blank=Assumed alive                               | 7751          |
| <i>DODDAY</i> 01-31                               | 6656          |
| Blank=Assumed alive                               | 7751          |
| <i>DODYEAR</i> 1971-2000                          | 6656          |
| Blank=Assumed alive                               | 7751          |
| <i>AGEDEATH</i> 30-101                            | 6656          |
| Blank=Assumed alive                               | 7751          |
| <i>AGEPRALV</i> 50-104                            | 7751          |
| Blank=Assumed deceased                            | 6656          |
| <i>CAUSEAVL</i> 0=No                              | 90            |
| 1=Yes   | 6566          |
| Blank=Assumed alive                               | 7751          |
| <i>DOBMONTH</i> 01-12                             | 14407         |
| <i>DOBDAY</i> 01-31                               | 14407         |
| <i>DOBYEAR</i> 1891-1950                          | 14407         |
| <i>DOEMONTH</i> 01-12                             | 14407         |
| <i>DOEDAY</i> 01-31                               | 14407         |
| <i>DOEYEAR</i> 1971-1975                          | 14407         |
| <i>AGEEXAM</i> 24-77                              | 14407         |
| <i>VITST92</i> 1=Assumed alive                    | 9257          |
| 2=Assumed deceased                                | 4604          |
| 3=Unknown   | 546           |

\* There were three cases previously released that were resubmitted to the NDI and a better scoring record was selected. These cases have been manually reviewed and the higher scoring record was used rather than the previously released record.

## NHEFS LINKED MORTALITY FILE

Frequencies for selected variables among those 'assumed' deceased<sup>1</sup>

| Underlying Cause of Death-72 Groups (ICD-9)   | Recode Group | Number of deaths |
|---|--------------|------------------|
| No cause of death data is available or an ICD-10 death  | n/a          | 559              |
| Tuberculosis of respiratory system (010-012)  | 040          | 8                |
| Septicemia (038)  | 090          | 60               |
| Viral hepatitis (070)   | 120          | 4                |
| Syphilis (090-097)  | 130          | 1                |
| All other infectious and parasitic diseases (001-003, 005, 020-032, 037, 039-041, 046-054, 056-066, 071-088, 098-139) | 140          | 17               |
| Malignant neoplasms of lip, oral cavity, and pharynx (140-149)  | 160          | 24               |
| Malignant neoplasms of digestive organs and peritoneum (150-159)  | 170          | 380              |
| Malignant neoplasms of respiratory and intrathoracic organs (160-165)   | 180          | 349              |
| Malignant neoplasm of breast (174-175)  | 190          | 117              |
| Malignant neoplasms of genital organs (179-187)   | 200          | 179              |
| Malignant neoplasms of urinary organs (188-189)   | 210          | 71               |
| Malignant neoplasms of all other and unspecified sites (170-173, 190-199)   | 220          | 143              |
| Leukemia (204-208)  | 230          | 57               |
| Other malignant neoplasms of lymphatic and hematopoietic tissues (200-203)  | 240          | 72               |
| Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature (210-239)          | 250          | 19               |
| Diabetes mellitus (250)   | 260          | 149              |
| Nutritional deficiencies (260-269)  | 270          | 2                |
| Anemias (280-285)   | 280          | 10               |
| Meningitis (320-322), Major cardiovascular diseases (390-448), Diseases of heart (390-398, 402, 404-429)              | 290          | 2                |
| Rheumatic fever and rheumatic heart disease (390-398)   | 320          | 16               |
| Hypertensive heart disease (402)  | 330          | 87               |
| Hypertensive heart and renal disease (404)  | 340          | 11               |
| Acute myocardial infarction (410)   | 360          | 919              |
| Other acute and subacute forms of ischemic heart disease (411)  | 370          | 11               |
| Angina pectoris (413)   | 380          | 3                |
| Old myocardial infarction and other forms of chronic ischemic heart disease (412, 414)                                | 390          | 742              |
| Other diseases of endocardium (424)   | 400          | 41               |
| All other forms of heart disease (415-423, 425-429)   | 410          | 503              |
| Hypertension with or without renal disease (401, 403)   | 420          | 38               |
| Intracerebral and other intracranial hemorrhage (431-432)   | 440          | 78               |

<sup>1</sup>The total number of 'assumed' deaths is equal to the total number of records that have a value of '1' (assumed deceased) for the variable MORTSTAT.

## NHEFS LINKED MORTALITY FILE

Frequencies for selected variables among those 'assumed' deceased<sup>1</sup>

| Underlying Cause of Death-72 Groups (ICD-9)   | Recode Group | Number of deaths |
|---|--------------|------------------|
| Cerebral thrombosis and unspecified occlusion of cerebral arteries (434.0, 434.9)   | 450          | 78               |
| Cerebral embolism (434.1)   | 460          | 5                |
| All other and late effects of cerebrovascular diseases (430, 433, 435-438)  | 470          | 376              |
| Atherosclerosis (440)   | 480          | 67               |
| Other diseases of arteries, arterioles, and capillaries (441-448)   | 490          | 77               |
| Acute bronchitis and bronchiolitis (466)  | 500          | 2                |
| Pneumonia (480-486)   | 520          | 226              |
| Influenza (487)   | 530          | 3                |
| Bronchitis, chronic and unspecified (490-491)   | 550          | 11               |
| Emphysema (492)   | 560          | 58               |
| Asthma (493)  | 570          | 12               |
| Other chronic obstructive pulmonary diseases and allied conditions (494-496)  | 580          | 173              |
| Ulcer of stomach and duodenum (531-533)   | 590          | 14               |
| Appendicitis (540-543)  | 600          | 2                |
| Hernia of abdominal cavity and intestinal obstruction without mention of hernia (550-553, 560)  | 610          | 15               |
| Chronic liver disease and cirrhosis (571)   | 620          | 56               |
| Cholelithiasis and other disorders of gallbladder (574-575)   | 630          | 7                |
| Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified (582-583, 587) | 660          | 8                |
| Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause (584-586, 588-589)                     | 670          | 62               |
| Infections of kidney (590)  | 680          | 9                |
| Hyperplasia of prostate (600)   | 690          | 1                |
| Other complications of pregnancy, childbirth, and the puerperium (640-676)  | 720          | 2                |
| Congenital anomalies (740-759)  | 730          | 8                |
| Symptoms, signs, and ill-defined conditions (780-799)   | 770          | 77               |
| All other diseases (Residual)   | 780          | 451              |
| Motor vehicle accidents (E810-E825)   | 800          | 55               |
| All other accidents and adverse effects (E800-E807, E826-E949)  | 810          | 78               |
| Suicide (E950-E959)   | 820          | 36               |
| Homicide and legal intervention (E960-E978)   | 830          | 14               |
| All other external causes (E980-E999)   | 840          | 1                |

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Frequencies for selected variables

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## NHEFS LINKED MORTALITY FILE

Frequencies for selected variables among those 'assumed' deceased<sup>1</sup>

| Underlying Cause of Death-34 Groups (ICD-9)   | Recode Group | Number of deaths |
|---|--------------|------------------|
| No cause of death data is available or an ICD-10 death                                    | n/a          | 559              |
| Tuberculosis (010-018)  | 010          | 8                |
| Syphilis (090-097)  | 020          | 1                |
| Residual of infectious and parasitic diseases (001-009,020-041,*042-*044,045-088,098-139) | 030          | 81               |
| Malignant neoplasms of digestive organs and peritoneum (150-159)                          | 050          | 380              |
| Malignant neoplasms of respiratory and intrathoracic organs (160-165)                     | 060          | 349              |
| Malignant neoplasm of breast (174-175)  | 070          | 117              |
| Malignant neoplasms of genital organs (179-187)   | 080          | 179              |
| Malignant neoplasms of urinary organs (188-189) 090                                       | 090          | 71               |
| Leukemia (204-208)  | 100          | 57               |
| Other malignant neoplasms (140-149,170-173,190-203)                                       | 110          | 239              |
| Diabetes mellitus (250)   | 120          | 149              |
| Rheumatic fever and rheumatic heart disease (390-398)                                     | 150          | 16               |
| Hypertensive heart disease with or without renal disease (402,404)                        | 160          | 98               |
| Ischemic heart disease (410-414)  | 170          | 1675             |
| Other heart diseases (415-429)  | 180          | 544              |
| Hypertension with or without renal disease (401,403)                                      | 190          | 38               |
| Cerebrovascular diseases (430-438)  | 200          | 537              |
| Atherosclerosis (440)   | 210          | 67               |
| Other diseases of arteries, arterioles, and capillaries (441-448)                         | 220          | 77               |
| Pneumonia and influenza (480-487)   | 230          | 229              |
| Chronic obstructive pulmonary diseases and allied conditions (490-496)                    | 240          | 254              |
| Ulcer of stomach and duodenum (531-533)   | 250          | 14               |
| Chronic liver disease and cirrhosis (571)   | 260          | 56               |
| Nephritis, nephrotic syndrome, and nephrosis (580-589)                                    | 270          | 70               |
| Complications of pregnancy, childbirth, and the puerperium (630-676)                      | 280          | 2                |
| Congenital anomalies (740-759)  | 290          | 8                |
| Symptoms, signs, and ill-defined conditions (780-799)                                     | 310          | 77               |
| All other diseases (Residual)   | 320          | 520              |
| Motor vehicle accidents (E810-E825)   | 330          | 55               |
| All other accidents and adverse effects (E800-E807,E826-                                  | 340          | 78               |
| Suicide (E950-E959)   | 350          | 36               |
| Homicide and legal intervention (E960-E978)   | 360          | 14               |
| All other external causes (E980-E999)   | 370          | 1                |

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## NHEFS LINKED MORTALITY FILE

Frequencies for selected variables among those 'assumed' deceased<sup>1</sup>

| Underlying Cause of Death-113 Groups (ICD-10)  | Recode Group | Number of deaths |
|--|--------------|------------------|
| No cause of death data is available  | n/a          | 90               |
| Certain infectious and parasitic diseases (A00-B99)  | 001          | 1                |
| Certain other intestinal infections (A04,A07-A09)  | 003          | 1                |
| Respiratory tuberculosis (A16)   | 005          | 8                |
| Septicemia (A40-A41)   | 010          | 65               |
| Diarrhea and gastroenteritis of infectious origin  | 011          | 1                |
| Viral hepatitis (B15-B19)  | 015          | 6                |
| Human immunodeficiency virus (HIV) disease (B20-B24)   | 016          | 4                |
| Other and unspec. Infectious and parasitic diseases and their sequelae (A00, A05,A20-A36,A42-A44,A48-A49,A54-A79,A81-A82,A85.0-A85.1, A85.8,A86-B04,B06-B09,B25-B49,B55-B99) | 018          | 15               |
| Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)  | 020          | 24               |
| Malignant neoplasm of esophagus (C15)  | 021          | 30               |
| Malignant neoplasm of stomach (C16)  | 022          | 38               |
| Malignant neoplasms of colon, rectum and anus (C18-C21)  | 023          | 199              |
| Malignant neoplasms of liver and intrahepatic bile ducts (C22)   | 024          | 24               |
| Malignant neoplasm of pancreas (C25)   | 025          | 83               |
| Malignant neoplasm of larynx (C32)   | 026          | 12               |
| Malignant neoplasms of trachea, bronchus and lung (C33-C34)  | 027          | 366              |
| Malignant melanoma of skin (C43)   | 028          | 15               |
| Malignant neoplasm of breast (C50)   | 029          | 125              |
| Malignant neoplasm of cervix uteri (C53)   | 030          | 17               |
| Malignant neoplasms of corpus uteri and uterus, part unspecified (C54-C55)   | 031          | 16               |
| Malignant neoplasm of ovary (C56)  | 032          | 36               |
| Malignant neoplasm of prostate (C61)   | 033          | 121              |
| Malignant neoplasms of kidney and renal pelvis (C64-C65)   | 034          | 34               |
| Malignant neoplasm of bladder (C67)  | 035          | 37               |
| Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)   | 036          | 29               |
| Hodgkin's disease (C81)  | 038          | 3                |
| Non-Hodgkin's lymphoma (C82-C85)   | 039          | 45               |
| Leukemia (C91-C95)   | 040          | 61               |
| Multiple myeloma and immunoproliferative neoplasms (C88,C90)   | 041          | 29               |
| All other and unspecified malignant neoplasms (C17,C23-C24,C26-C31,C37-C41, C44-C49,C51-C52,C57-C60,C62-C63,C66,C68-C69,C73-C80,C97)   | 043          | 153              |

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## NHEFS LINKED MORTALITY FILE

Frequencies for selected variables among those 'assumed' deceased<sup>1</sup>

| Underlying Cause of Death-113 Groups (ICD-10)  | Recode Group | Number of deaths |
|--|--------------|------------------|
| In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48) | 044          | 19               |
| Anemias (D50-D64)  | 045          | 10               |
| Diabetes mellitus (E10-E14)  | 046          | 157              |
| Malnutrition (E40-E46)   | 048          | 4                |
| Human immunodeficiency virus (HIV) disease resulting in malignant neoplasms (B21)            | 050          | 2                |
| Parkinson's disease (G20-G21)  | 051          | 23               |
| Alzheimer's disease (G30)  | 052          | 36               |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)                         | 055          | 16               |
| Hypertensive heart disease (I11)   | 056          | 89               |
| Hypertensive heart and renal disease (I13)   | 057          | 11               |
| Acute myocardial infarction (I21-I22)  | 059          | 959              |
| Other acute ischemic heart diseases (I24)  | 060          | 13               |
| Atherosclerotic cardiovascular disease, so described (I25.0)                                 | 062          | 201              |
| All other forms of chronic ischemic heart disease (I20,I25.1-I25.9)                          | 063          | 803              |
| Acute and subacute endocarditis (I33)  | 065          | 2                |
| Diseases of pericardium and acute myocarditis (I30-I31,I40)                                  | 066          | 3                |
| Heart failure (I50)  | 067          | 122              |
| All other forms of heart disease (I26-I28,I34-I38,I42-I49,I51)                               | 068          | 268              |
| Essential (primary) hypertension and hypertensive renal disease (I10,I12)                    | 069          | 42               |
| Cerebrovascular diseases (I60-I69)   | 070          | 586              |
| Atherosclerosis (I70)  | 071          | 69               |
| Aortic aneurysm and dissection (I71)   | 073          | 53               |
| Other diseases of arteries, arterioles and capillaries (I72-I78)                             | 074          | 31               |
| Other disorders of circulatory system (I80-I99)  | 075          | 13               |
| Influenza (J10-J11)  | 077          | 3                |
| Pneumonia (J12-J18)  | 078          | 241              |
| Acute bronchitis and bronchiolitis (J20-J21)   | 080          | 2                |
| Bronchitis, chronic and unspecified (J40-J42)  | 083          | 11               |
| Emphysema (J43)  | 084          | 59               |
| Asthma (J45-J46)   | 085          | 13               |
| Other chronic lower respiratory diseases (J44,J47)   | 086          | 186              |
| Pneumoconioses and chemical effects (J60-J66,J68)  | 087          | 9                |
| Pneumonitis due to solids and liquids (J69)  | 088          | 19               |

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## NHEFS LINKED MORTALITY FILE

Frequencies for selected variables among those 'assumed' deceased<sup>1</sup>

| Underlying Cause of Death-113 Groups (ICD-10)  | Recode Group | Number of deaths |
|--|--------------|------------------|
| Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98)   | 089          | 50               |
| Peptic ulcer (K25-K28)   | 090          | 14               |
| Diseases of appendix (K35-K38)   | 091          | 2                |
| Hernia (K40-K46)   | 092          | 4                |
| Alcoholic liver disease (K70)  | 094          | 18               |
| Other chronic liver disease and cirrhosis (K73-K74)  | 095          | 40               |
| Cholelithiasis and other disorders of gallbladder (K80-K82)  | 096          | 7                |
| Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02-N03,N05-N07,N26)   | 099          | 8                |
| Renal failure (N17-N19)  | 100          | 70               |
| Infections of kidney (N10-N12,N13.6,N15.1)   | 102          | 10               |
| Hyperplasia of prostate (N40)  | 103          | 1                |
| Other complications of pregnancy, childbirth, and the puerperium (010-099)   | 107          | 2                |
| Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)   | 109          | 8                |
| Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)  | 110          | 83               |
| All other diseases (Residual) (D65-E07,E15-E34,E65-F99,G04-G12,G23-G25,G31-H93,K00-K22,K29-K31,K50-K66,K71-K72,K75-K76,K83-M99, N13.0-N13.5,N13.7-N13.9,N14,N15.0,N15.8-N15.9,N20-N23,N28-N39,N41-N64,N80-N98) | 111          | 381              |
| Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2, V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)   | 114          | 57               |
| Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9, V10-V11, V15-V18,V19.3,V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9, V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9)                              | 115          | 2                |
| Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85)   | 116          | 2                |
| Falls (W00-W19)  | 118          | 29               |
| Accidental discharge of firearms (W32-W34)   | 119          | 1                |
| Accidental drowning and submersion (W65-W74)   | 120          | 5                |
| Accidental exposure to smoke, fire and flames (X00-X09)  | 121          | 12               |

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## NHEFS LINKED MORTALITY FILE

Frequencies for selected variables among those 'assumed' deceased<sup>1</sup>

| Underlying Cause of Death-113 Groups (ICD-10)   | Recode Group | Number of deaths |
|---|--------------|------------------|
| Accidental poisoning and exposure to noxious substances (X40-X49)   | 122          | 7                |
| Other and unspecified nontransport accidents and their sequelae (W20-W31,W35-W64,W75-W99,X10-X39,X50-X59,Y86)                 | 123          | 23               |
| Intentional self-harm (suicide) by discharge of firearms (X72-X74)  | 125          | 21               |
| Intentional self-harm (suicide) by other and unspecified means and their sequelae (*U03,X60-X71,X75-X84,Y87.0)                | 126          | 16               |
| Assault (homicide) by discharge of firearms (*U01.4,X93-X95)  | 128          | 9                |
| Assault (homicide) by other and unspecified means and their sequelae (*U01.0-*U01.3,*U01.5-*U01.9,*U02,X85-X92,X96-Y09,Y87.1) | 129          | 5                |
| Other and unspecified events of undetermined intent and their sequelae (Y10-Y21,Y25-Y34,Y87.2,Y89.9)                          | 133          | 2                |
| Complications of medical and surgical care (Y40-Y84,Y88)  | 135          | 4                |

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## NHEFS LINKED MORTALITY FILE

Frequencies for selected variables among those 'assumed' deceased<sup>1</sup>

| Underlying Cause of Death-39 Groups (ICD-10)  | Recode Group | Number of deaths |
|---|--------------|------------------|
| No cause of death data is available or an ICD-9 death   | n/a          | 6187             |
| Malignant neoplasms of colon, rectum and anus (C18-C21)   | 006          | 14               |
| Malignant neoplasm of pancreas (C25)  | 007          | 4                |
| Malignant neoplasms of trachea, bronchus and lung (C33-C34)   | 008          | 33               |
| Malignant neoplasm of breast (C50)  | 009          | 8                |
| Malignant neoplasms of cervix uteri, corpus uteri and ovary (C53-C56)   | 010          | 5                |
| Malignant neoplasm of prostate (C61)  | 011          | 9                |
| Malignant neoplasms of urinary tract (C64-C68)  | 012          | 1                |
| Non-Hodgkin's lymphoma (C82-C85)  | 013          | 5                |
| Leukemia (C91-C95)  | 014          | 4                |
| Other malignant neoplasms (C00-C15,C17,C22-C24,C26-C32,C37-C49,C51-C52, C57-C60,C62-C63,C69-81,C88,C90,C96-C97)   | 015          | 22               |
| Diabetes mellitus (E10-E14)   | 016          | 8                |
| Alzheimer's disease (G30)   | 017          | 7                |
| Hypertensive heart disease with or without renal disease (I11,I13)  | 020          | 2                |
| Ischemic heart diseases (I20-I25)   | 021          | 111              |
| Other diseases of heart (I00-I09,I26-I51)   | 022          | 41               |
| Essential (primary) hypertension and hypertensive renal disease (I10,I12)   | 023          | 4                |
| Cerebrovascular diseases (I60-I69)  | 024          | 49               |
| Atherosclerosis (I70)   | 025          | 2                |
| Other diseases of circulatory system (I71-I78)  | 026          | 7                |
| Influenza and pneumonia (J10-J18)   | 027          | 15               |
| Chronic lower respiratory diseases (J40-J47)  | 028          | 15               |
| Chronic liver disease and cirrhosis (K70,K73-K74)   | 030          | 2                |
| Nephritis, nephrotic syndrome, and nephrosis (N00-N07,N17-N19,N25-N27)  | 031          | 8                |
| Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (excluding Sudden infant death syndrome) (R00-R94,R96-R99)              | 036          | 6                |
| All other diseases (Residual) (A00-A09,A20-A49,A54-B19,B25-B99,D00-E07,E15-G25,G31-H93,I80-J06,J20-J39,J60-K22,K29,K66,K71-K72,K75-M99,N10-N15,N20-N23,N28-N98) | 037          | 76               |

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## NHEFS LINKED MORTALITY FILE

Frequencies for selected variables among those 'assumed' deceased<sup>1</sup>

| Underlying Cause of Death-39 Groups (ICD-10)  | Recode Group | Number of deaths |
|---|--------------|------------------|
| Motor vehicle accidents (V02-V04,V09.0,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)   | 038          | 2                |
| All other and unspecified accidents and adverse effects (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3,V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9,V90-X59,Y40-Y86,Y88) | 039          | 7                |
| Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)  | 040          | 1                |
| All other external causes (Y10-Y36,Y87.2,Y89)   | 042          | 1                |

<sup>1</sup>The total number of 'assumed' deaths is equal to the total number of records that have a value of '1' (assumed deceased) for the variable MORTSTAT.